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Memorial services held for former LLU vice president

Memorial services were held Sabbath, January 28, 1989, in the University Church of Seventh-day Adventists for Harrison S. Evans, MD, former vice president for medical affairs, president of Adventist Health System / Loma Linda, and dean of the School of Medicine. Dr. Evans died Sabbath, January 21, 1989, at his Loma Linda home of pancreatic cancer.



Dr. Evans

Born in Monroe, Iowa, Dr. Evans attended schools in Newton, Iowa, and graduated from Union College, Lincoln, Nebraska, and Loma Linda Uni-

versity School of Medicine in 1936.

A psychiatrist, Dr. Evans was a founder and member of the board of directors of Worthington Foods and the Harding-Evans Foundation.

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Unified core curriculum established for University

For the first time in its history, Loma Linda University has established a University-wide core curriculum of general studies applicable to all of its undergraduate students.

This step, according to Helen Ward Thompson, PhD, vice president for academic administration, is the result of extended study and planning and enables each student to attain a true university

education — a broad, academically strong formation in spiritual, mental, physical, and social areas in addition to the focused training provided by the major curriculum.

The new general education program consists of 77 units, plus three physical activities courses. In combination with free electives, this comprises one half of a bachelor-level student's total coursework, Dr. Thompson says.

The program's provisions are expressed as minimum requirements in each of six general areas of learning. These may be augmented by the individual schools of the University at their discretion.

A. *Humanities*: Must include one course in each of the following areas: civilization / history, literature, and fine arts. Remaining units may be chosen from the areas above and modern language and philosophy. 20 units.

B. *Communication skills*: Written skills: must include a com-

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For surpassing goals in the Business Executive's Challenge to Alumni, Loma Linda University president Norman J. Woods, PhD, (right) receives a \$27,000 award from Tom and Vi Zapara (center), major donors to the incentive program. Accepting the award for Loma Linda University are (from left) Marilyn Bradley, director of alumni relations and annual giving for the La Sierra campus; R. Dale McCune, EdD, vice president / provost for La Sierra; Mike Huitt, former assistant director of development; and Dr. Woods. The award was part of \$248,000 distributed during the 12th annual dinner for philanthropy held in Minneapolis, Minnesota.

Researcher explores pages of 'ancient book'

During a recent field trip into unexplored canyons in the windswept back country of Wyoming, an explorer stumbled onto a very ancient book. It is said that the book is older than the relics in Pharaoh's tomb.

Dust covered and weather beaten, the book required a great deal of effort and care to open. Tools including picks, shovels, chisels, hammers and whisk brooms were used. By day's end the explorer had examined hundreds of pages — many blank — but enough revealing treasures that made him want to keep on reading by lantern light!

The process of opening pages of the old book was relatively simple. The edge of the book revealed thin, multi-colored laminae. A page was selected, the chisel put to it and several sharp

blows of the hammer opened it to reveal a spectacular treasure and coded message. The code must await the laboratory and its sophisticated equipment including x-ray diffractometers and computers. The treasure was at least in part self-explanatory.

The book tells the story of an ancient lake that covered a large part of Wyoming during what is described by geologists as the Eocene time. Never mind how old... just very old! The sediments deposited in the lake have since turned to stone, and they record the day by day events of life of those ancient times.

These rocks are known worldwide by scientists and layman for their exquisitely preserved fossil fish, crocodiles, turtles, birds, bats, snakes, frogs, insects, leaves, and even delicate flowers — just to

name a few.

There is much controversy over how and why these fossils are preserved. Even the origin of the rock that contains them remains an "unsolved mystery" and evokes heated debate among scientists.

These rocks are known as "oil shales" and have over the years attracted the interest of both private and government agencies hoping to find an inexpensive means of extracting the "black gold."

At Loma Linda University, H. Paul Buchheim, PhD, professor of geology and coordinator of the paleontology graduate program, has been investigating these rocks and their fossils for over 10 years and has involved numerous graduate students in these studies.

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J. Dee Lansing, MD (second from left), president of the Loma Linda University Councilors, and Ronald Drayson, PhD (left), past-president of the Councilors, present School of Dentistry dean Judson Klooster, DDS, and William Heisler, DDS (right), School of Dentistry Century Club campaign chairman, with a check for \$78,000 on behalf of the University Councilors. In 1986, the School of Dentistry Alumni Association and the University Councilors joined together to launch a major campaign to establish a revolving student loan fund. The objectives were to replace some of the student's high-interest loans, and, through a tailored repayment plan, allow the graduate to be responsive to his or her patients' needs rather than focusing on major debts. In a challenge to dental alumni, the LLU Councilors pledged a total of \$410,000 over the course of the multi-year campaign. The check presented this year is the Councilors portion of the challenge grant for the 1987-88 academic year in which School of Dentistry alumni raised \$247,000 for the loan fund.

School of Medicine auxiliary plans events during convention

Sue Monk Kidd, author of *God's Joyful Surprise* and other inspirational books, will speak at the home coming luncheon for the auxiliary to the Alumni Association of Loma Linda University School of Medicine during the upcoming Alumni Postgraduate Convention.

The luncheon will be held at the Wyndham Palm Springs Hotel near the downtown shopping area, Monday, February 27, at 11 a.m. Violin artists Sherwin and Elena Thia will also perform.

A native of Georgia, Mrs. Kidd now lives in North Carolina with her husband, Sanford, a chaplain and religion teacher at Anderson College, and their two children. She is a frequent retreat leader and speaks often on such subjects as "Seeking Wholeness in a Stressful World," "Listening to God," "Addiction to Perfection," and "Releasing Your Creative Spirit."

Since 1979, Mrs. Monk has been a contributing editor for *Guideposts* magazine and has published over 100 articles in that magazine as well as contribution to *Reader's Digest*, *Focus on the Family* and other periodicals. *God's Joyful Surprise* was the main selection of the Christian Herald Book Club.

The luncheon is open to the public and reservations may be made by calling (714) 824-4639 or by going to the auxiliary office at 11245 Anderson Street in Loma Linda. Tickets are \$30.

Other events sponsored by the auxiliary during the convention will include a musical program featuring alumni talent on Sabbath afternoon, February 25, at 4 p.m. in the University Church.

"A Diversity of Joy," the auxiliary theme for the week, will be emphasized beginning Sunday morning, February 26, when former congresswoman Shirley

'Big Hearts for Little Hearts' campaign initiated by University Medical Center

For the first time in its 83-year history, Loma Linda University Medical Center will invite individuals, corporations, and foundations to join in providing financial support for the center's expanding medical services. With international, national, and regional participation, the \$70,000,000 five-year campaign will help provide funding for the Medical Center's current projects designed to serve a local — as well as a global — need, and build a foundation for 21st century medicine.

Loma Linda University Medical Center has traditionally relied on assistance from the Seventh-day Adventist Church, its members, and alumni from Loma Linda University, a base of support which will continue. However, the service and growth of the Medical Center, and the expanded level of activity reflecting state-of-the-art medicine associated with few institutions in the world, require a broader philanthropic base.

In announcing the campaign, David B. Hinshaw, Sr., MD, president of the Medical Center and its parent corporation, Adventist Health System / Loma Linda, acknowledged the continuing support of the Adventist community in making it possible for the institution to emerge as a medical center of national prominence.

Pettis Roberson will speak on "Joy of Public Service." Other topics to be presented during morning seminars include "Joy in Healing," "Turning Heartaches Into Joy," "Joy Is Where the Heart Is" and "Joy in Organization."

Complete details and tickets for all programs are available at the auxiliary office.

"As we move forward in developing a new modality for cancer control, continue our work with infants and heart transplants, and seeking better methods of preventing and healing diseases, the institution invites the community to share in making these services available to all who need them," Dr. Hinshaw says.

The theme of the campaign is "Big Hearts for Little Hearts." It is designed to provide funding for two major areas — the proton beam cancer treatment center and a new children's hospital.

The proton cancer treatment center will be the world's first facility for cancer control using an entirely new treatment modality. Proton therapy, as a result of 40 years of high-energy physics research, is more effective in eliminating cancerous tumors and minimizing the side effects currently associated with cancer treatment for the one in four Americans who are afflicted with the disease.

Construction has begun on the \$40,000,000 cancer center which is scheduled to open in early 1990. The center will be a model for other cancer-treatment facilities

under consideration in several locations around the world.

The new Children's Hospital, also scheduled for completion in 1990, is a direct response to the expanding need for specialized neonatal and pediatric care in the fastest growing region of the nation. The new facility will be the world's first to offer proton-beam therapy for cancer treatment to children.

In addition, the new Children's Hospital will provide expanded facilities for infant heart transplants.

Loma Linda University Medical Center is currently doing about 80 percent of all infant heart transplants in the nation, and has a 95 percent success rate in the past year. It will also provide a base of operation for "Open Hearts for Children," a program that has provided medical care without charge to children in third world countries for the past 15 years.

Approximately \$20 million has already been raised toward the campaign. Philanthropic opportunities for community, government, and foundation support are planned to achieve the five-year goal.



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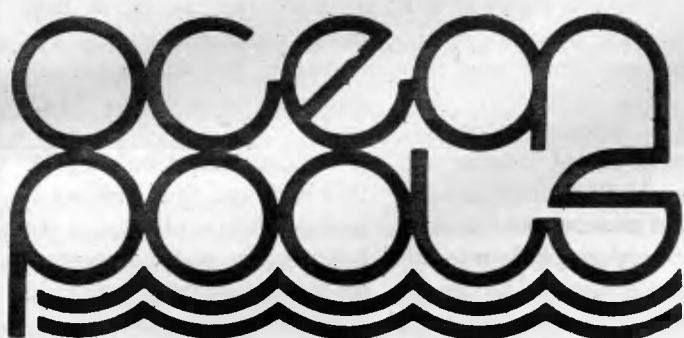
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Faculty notes

Walter P. Ordelheide, MD, professor of family medicine, has been awarded \$89,000 from National Institutes of Health, Division of Medicine, for "Grants for Graduate Training in Family Medicine."

H. Maynard Lowry, director of the Loma Linda University libraries, has been awarded \$18,938 in ten Macintosh computers and three laserwriter Apple computers for a student access microcomputing facility at the Loma Linda campus of the Del E. Webb Memorial Library.

John Morgan, DrPH, assistant professor of preventive medicine, and **Pedro Llorca, MD**, postdoctoral fellow in preventive medicine, were awarded funds for a research project entitled "Assessment of Relationships Between Intestinal Cell Proliferation in Humans."

John Lewis, PhD, chairman of the department of clinical laboratory science in the School of Allied Health Professions, recently returned from a Soviet-American technology conference that was held in Moscow and Leningrad. The purpose of the meetings was to share clinical laboratory techniques and information with Soviet counterparts.

During the month of January, **Robert W. Teel, PhD**, professor of physiology and pharm-

acology in the School of Medicine, was host to Tadeusz Gorski, MD, director of the institute of hygiene in Lodz, Poland. Dr. Gorski's visit was made possible by a grant from the International Union Against Cancer in Geneva, Switzerland. During his three-week stay, Dr. Gorski utilized the facilities in the Del E. Webb Memorial Library and learned laboratory techniques that would aid his own research interests in cancer prevention. Dr. Teel's publications on the anticarcinogenic action of the plant dietary factor ellagic acid prompted Dr. Gorski to request a visit to Loma Linda University to gain knowledge about this interesting compound. Dr. Gorski is active in cancer education in Poland and has worked closely with Seventh-day Adventists in anti-smoking education.

Patricia Foster, PhD, associate dean for academic affairs in the School of Nursing, presented a paper entitled "Assessing Student Outcomes on a Nursing Learning Assistance Program" at the seventh annual National League for Nursing Research Conference held January 12 in San Francisco. Two other School of Nursing faculty members, **Grenith Zimmerman, PhD**, professor of biostatistics, and **Vaneta Condon**, assistant professor of nursing, co-authored the paper. The research project was funded in part by a Loma Linda University seed money award.

Student access microcomputing laboratory grand opening planned for February 7

The official opening of the new student access microcomputing laboratory will take place on Tuesday, February 7, at 12 noon, in the media services (first floor) of the Del E. Webb Memorial Library, according to H. Maynard Lowry, director of the University libraries.

The microcomputing lab will house 10 Apple Macintosh SE computers and both Apple Imagewriter II dot matrix and Apple Laserwriter NTX printers. As space becomes available, an additional five Macintosh SE's will be placed into service.

The student access microcomputing laboratory was made possible by an institutional purchase of eight computers plus three printers.

A matching equipment grant of eight computers and a laserwriter came from Apple Computer, Inc.

"The matching equipment grant from Apple is valued at nearly \$20,000," says Helen Ward Thompson, PhD, vice president for academic administration.

"This generous gift from Apple certainly brought the concept of a student microcomputing lab to life," Dr. Thompson says. "We now have the number of computers and ones which are easy to use, which should meet the urgent need for student comput-

ing which has been with us for several years. We are very pleased with this addition to the academic support area of our campus."

The library was chosen as the best campus location because of the hours it is open and the assistance and supervision required in such a center. The laboratory's hours of operation will be the same as the library's. Students will be able to reserve a use time in advance so that waiting in line is reduced.

A limited amount of software will be available in the lab for student use. "We expect that students will be most interested in wordprocessing, as well as some spreadsheet and database applications," Mr. Lowry says. "As the software needs of students become clearer, additional software will be purchased."

"We want the lab to be used to the maximum so we are trying to implement a group of administrative policies which will facilitate this purpose," Mr. Lowry says.

"We are going to supply paper for the dot matrix printers. Students can print drafts on these and edit them. When they want a high quality finished copy, they can print to the laserwriter. Because of the cost of supplies, we will charge a per page cost when the laserwriter is used.

Students will also be able to purchase floppy disks to store their data and reports."

There are no immediate plans to add IBM compatible computers. "We know there are large numbers of students who are already using IBM format equipment," Mr. Lowry says. "We hope that it will be possible to add some MS/DOS machines as funds become available."

Cholesterol screening program slated for Wednesday, March 1

Cholesterol and triglyceride screening will be offered Wednesday, March 1, from 7 a.m. to 12 noon in Nichol Hall room 1301.

Fasting is not necessary for cholesterol tests, but is required for triglyceride testing. No appointment is needed. Cost of each test is \$5.

Test results will be ready in minutes and nutritional counseling will be provided by a dietitian specializing in the nutritional lifestyle management of coronary heart disease risk factors.

"The development of portable blood analyzers has made it possible for practically every adult to be screened for elevated cholesterol levels at a minimal cost" says Robert Lee, director of the program and a doctoral student in the School of Public Health.

Tribute to Martin Luther King, Jr.

by David A. Pendleton

At this time of year Americans commemorate the life of Dr. Martin Luther King, Jr. Why do we do this? Why was he a great man? Is it because he was a charismatic leader, a gifted orator, or a deeply committed Christian? Is it because he died a martyr? Perhaps. Indeed, he was all of these. But he was much, much more.

Born in Atlanta, Georgia, on January 15, 1919, Martin Luther King, Jr. grew up in a middle-class family. As a child he went to school in the morning, studied hard in the afternoon, played ball when he had completed his homework, and faithfully attended Sunday school every week. This behavior was to be expected since his father was a Baptist minister and his mother was a school teacher. On the surface he led a relatively average life. But he was not an average person; nor was he destined to live anything close to an average life.

For one thing, he was not just an American; he was a black American. Today, after the successes of the civil rights movement and the resulting political reforms of the 1960s, this fact has lost some of its significance.

Racism and bigotry still exist today, but society has openly condemned such base attitudes. For the most part, American society has eliminated racial discrimination in the schools and workplaces. During the middle of the 20th century such was not the case. Racial discrimination was openly practiced. In the deep south, many black Americans were prevented from voting; they had separate housing and bathroom facilities; and black children could not attend the schools of their choice.

This was the American that Martin Luther King, Jr., knew. He loved his country; but he determined that it must reform. If it was to remain true to the very principles by which it was founded, America would have to change its ways.

But the first task at hand was to learn more about himself and his world — and learn he did!

In 1948, at the age of 19 he received a bachelor of arts degree from Morehouse College; in 1951 he earned a bachelor of divinity degree from Crozer Theological Seminary; and in 1955 he was awarded the doctor of philosophy degree by Boston University.

While at Boston University he met Coretta Scott. They were married in 1953 and subsequently had four children. To acquire a beautiful family and a solid education, however, were not enough for Dr. King.

In the years that followed he

threw himself into what eventually became the civil rights movement. He organized a successful boycott of the segregated transportation system of Montgomery, Alabama.

In 1957 he became president of the Southern Christian Leadership Conference (SCLC) and gained nation-wide attention for his pursuit of social reforms through non-violent methods. He was named "man of the year" by *Time* magazine in 1963, and the following year he was honored with the Nobel Peace Prize.

One of his most famous and moving speeches was given on August 28, 1963, in front of the Lincoln memorial; it was his "I Have a Dream" speech. The closing paragraph of the speech is worth quoting: "When we allow freedom to ring, when we let it ring from every village and every hamlet, from every state and every city, we will be able to speed up that day when all of God's children, black men and white men, Jews and Gentiles, Protestants and Catholic, will be able to join hands and sing in the words of the old Negro spiritual, 'Free at last! Free at last! Thank God almighty, we are free at last!'"

In his lifetime he saw much success and glory, but life for him was never easy. He was jailed on numerous occasions. His home was bombed, and he was once stabbed by a mentally-ill woman. He received many threats over the phone, and he feared for the lives of his wife and children.

Yet he was courageous and did not allow himself to be intimidated or to vary from his chosen course. Until his very last hour — on that fatal day, April 4, 1968, in Memphis, Tennessee — he fought for the right and stood for truth.

In response to the questions posed earlier, "Why do we commemorate his life? Why was he a great man?" many would reply that he accomplished much for black Americans.

This is true. Nevertheless, this is only part of the answer. Martin Luther King, Jr. is remembered today because he won a victory not only for black Americans across this country; he won a victory for all Americans — Americans of all ethnic groups!

For whenever an American anywhere has his or her constitutional rights curtailed, violated, or in any manner taken away, all Americans everywhere are robbed. Either liberty and justice is accorded to all, or our pledge of allegiance and all that our flag stands for is a fraud.

Please turn to page 7

Medical Center senior vice president visits Soviet Union

Thomas Zirkle, MD, senior vice president for medical administration at Loma Linda University Medical Center, and LLU associate professor of surgery, recently represented the Medical Center and the University at the dedication of the Seventh-day Adventist seminary in Zaoski in the republic of Russia, Union of Soviet Socialist Republics.

Dr. and Mrs. Zirkle joined a small group of other Adventists — including Neal C. Wilson, president of the General Conference of Seventh-day Adventists headquartered in Washington, DC, and his wife — invited to the USSR by officials of the Soviet Adventist church and by the Soviet government.

The government's invitation was extended by Konstantin Kharchev, chairman of the Council of Religious Affairs for the USSR, who came to the United States in 1987 and visited various sites in this country, including a number of Seventh-day Adventist institutions. On his visit, he was accompanied by a translator, Pastor M. P. Kulakov, president of the Seventh-day Adventist church in the USSR.

Mr. Kharchev and Mr. Kulakov met Neal Wilson in Washington, D.C., at that time, and Mr. Wilson accompanied them to Loma Linda, where they visited the Medical Center and the University in early September, 1987.

As a result of these contacts, Mr. Kharchev invited Pastor Wilson and other Adventist representatives to visit the USSR to witness the dedication of the seminary on Friday, December 2.

Some time previously, the Soviet government had given approval for the opening of the seminary for the training of Seventh-day Adventist pastors, and had given the Soviet Adventists an abandoned monastery located in Zaoski in a rural area 80 miles south of Moscow.

The huge building had walls but no ceiling, floors, or roof. During a period of 18 months, Soviet Adventists contributed money, time, and skills to restore the building.

"It is a four-story, dark-red building," Dr. Zirkle says, "that,

because of its height, can be seen from all around. It has been restored beautifully, both inside and out. It is very representative."

Dr. Zirkle was able to communicate with the Soviet people, mostly through interpreters, although, he says, a lot of the people understand English, and a number of the younger ones try to speak it.

"They are a friendly people," he states.

After the dedication of the seminary, Dr. Zirkle and part of the group flew from Moscow to Leningrad. Even in the wintertime, Dr. Zirkle found Leningrad to be a very

beautiful city.

"There is a lot of color in Leningrad," he explains. "Buildings are beautiful, and there are canals and lots of trees."

While in Leningrad, Dr. Zirkle gave a lecture to pediatric surgeons, pediatric cardiologists, and anesthesiologists from the western USSR. He discussed Loma Linda University Medical Center's pediatric heart-transplant program and showed a videotape of many of the heart-transplant infants and children involved in a variety of activities.

"The Russian physicians were very excited by the possibilities of

open-heart surgery and heart transplants for infants," Dr. Zirkle states. "The possibility of future

cooperative programs by our International Heart Team with them is under consideration."



Located in Zaoski in the republic of Russia, Union of Soviet Socialist Republics, this four-story, former monastery has been restored and now serves as a seminary for the training of Seventh-day Adventist pastors.

School of Public Health plans annual 'Update' convention

"Healthy People, Reality or Illusion" is the theme of this year's School of Public Health Update convention. Sponsored by the School's Alumni Association, Update will be held March 2-5, 1989, at the Randall Visitors Center in Loma Linda.

The keynote address, "A population that does not smoke is a healthier population — how and why," will be delivered by the Honorable Jake Epp, PC, MP, BA, Minister of Health and Welfare of Canada, on Thursday, March 2, at 8:30 a.m.

Mr. Epp, member of Parliament for the riding of Provencher, Manitoba, serves in the government of Prime Minister Brian Mulroney. Mr. Epp is also chairman of the Cabinet Committee on Social Development and member of the Cabinet Committee of Planning and Priorities.

He was first elected to the House of Commons in 1972. The following year, he was appointed as the Progressive Conservative Caucus Chairman for Immigration by the Honorable Robert Stanfield.

In 1975, Mr. Epp served on the Special Joint Committee which studied the Gree Paper on Immigration. Mr. Epp has served on several Standing Committees, including Regional Development and Labor, Manpower and Immigration.

In 1979, Mr. Epp assumed the responsibility of Minister of Indian Affairs and Northern Development in the government of Prime Minister Joe Clark. He was named Chairman of the Committee on Federal-Provincial Relations in 1980 and was also responsible for matters relating to the Canadian Constitution. In 1983, Mr. Epp was appointed Caucus Chairman for Health and Welfare.

Other Update speakers, chosen from among the foremost authorities in their respective

fields, will explore some of the links between nutrition and disease.

Update will offer 23 units of Continuing Education Credit in the areas of nursing (BRN

04490), dietetics, medicine (category I), nursing home administration, osteopathy (category I-B), and general.

For registration and fee infor-

mation, contact the School of Public Health Alumni Association, Nichol Hall room 1516, Loma Linda, CA 92350, or call (714) 824-4943.



RIMS board members (left to right) Don Cavallo, chief of health information services, Riverside County; Edward Gallagher, MD, Riverside County health officer; George Patterson, MD, San Bernardino County health officer; E. Jimmie Loder, RIMS administrative director; Alan King, MD, RIMS medical director; Herman Menck, RIMS principal investigator; and Ron Anderson, senior vice president of Loma Linda University Medical Center, review RIMS agreements.

RIMS meets to plan surveillance activities

The operating board of the Riverside-Inyo-Mono-San Bernardino (RIMS) Cancer Surveillance Program met on December 22, to plan surveillance activities for the coming months, according to Herman R. Menck, RIMS principal investigator.

During their meeting, the board reviewed a series of agreements between the three principal parties — RIMS, each hospital and clinic in the four county area, and the four respective health departments.

These agreements, as required by state law, formalize a wide range of activities designed to minimize the impact of cancer on the four county populace, and provide for protection of confidential data. Each of the community, local, and state hospital in the RIMS area have agreed to report all cancer diagnoses. Patient data is now being received.

The purpose of RIMS, as the national registry, is primarily population disease control.

Data collected by RIMS will be used locally for occupational, community, and regional health assessment, and in addition, will be forwarded to the state, merged with other data, and used for state-wide surveillance purposes.

To assist in the epidemiologic assessment of the cancer data, a minicomputer has been installed in the RIMS offices, and will be used for data management and statistical analysis purposes. In addition to tabular information, cancer maps will be produced to highlight areas of concern within the region.

At the operating board meeting other topics discussed included proposed uses of cancer incidence and mortality data; a monograph on "Cancer Mortality in the Inland Empire"; a RIMS Newsletter

which will include articles of cancer control interest; and specifically targeted cancer personnel training programs.

School of Public Health student dies in accident

Becky Lee Bushman, a School of Public Health student, was killed in a bicycling accident in Redlands on January 17.

Miss Bushman, an accomplished horsewoman, worked as a volunteer at Pomona Valley Community Hospital and belonged to the United Methodist Church of Claremont. She was a member of the Alliance for the Mentally Ill and Students Organized for American Homeless.

She is survived by her parents, Mr. and Mrs. B. M. Bushman of Claremont. Memorial services were held on January 23.

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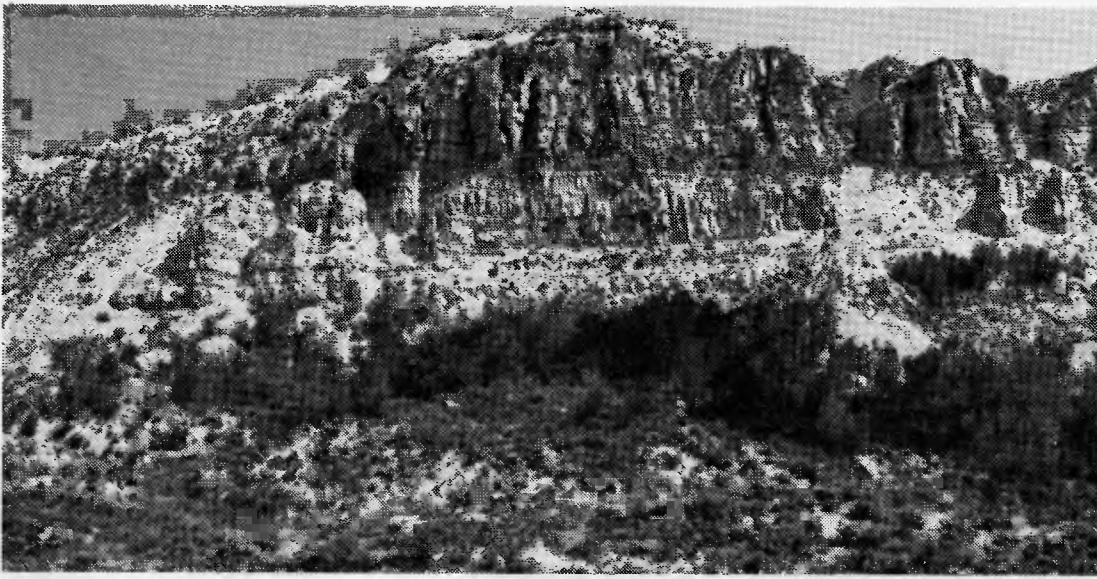


Figure one. The imposing 200-foot cliff forms the southern face of Fossil Butte, which has become famous for its abundant and well-preserved fossils. The layered rocks contain the records and history of an ancient lake and its surroundings that once teemed with a wide variety of animals and plants.

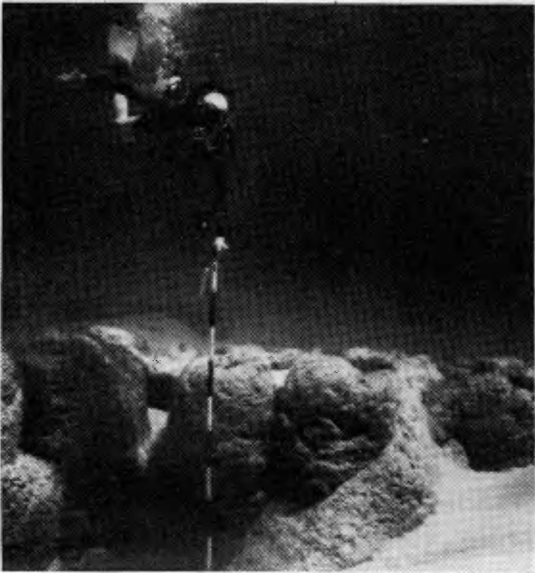


Figure two. "Living fossils" called stromatolites are being measured and studied by Paul Buchheim, PhD, within a tidal channel of a remote island in the Bahamas. Each division on the measuring staff is 20 centimeters or about eight inches.

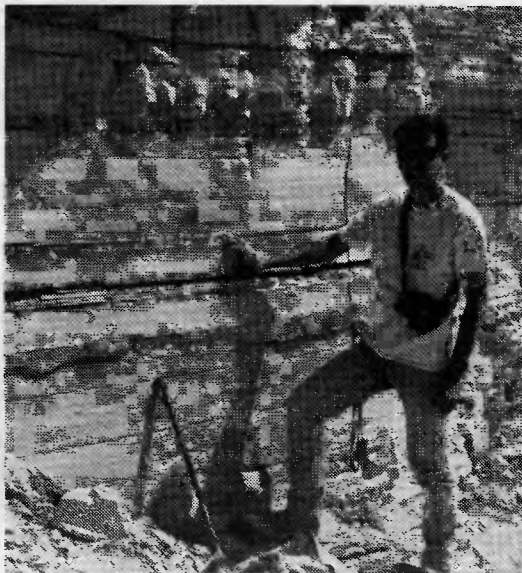


Figure three. Robert Biaggi, a graduate student in geology, points out the "sandwich horizon," a rock unit that has provided important clues in deciphering an ancient time clock. The clock was found to be inconsistent.

Researcher explores 'ancient book'...

Continued from page 1

Dr. Buchheim has published 14 papers and abstracts on his research and has received 12 grants in support of his work. He has also received the "President's Award" from the Society of Economic Paleontologists and Mineralogists for a paper he presented on the origin of oil shales.

He has concentrated his research efforts within the Fossil Butte National Monument (figure 1), set up by congress to protect and promote study of one of the world's richest fossil deposits.

Dr. Buchheim has been invited by Fossil Butte National Monument to be a consulting scientist in the development of its fossil resources. He will be directing in the excavation of a major quarry site at the monument this coming summer (by the way, he is looking for a few volunteer excavators!).

In order to really understand what went on in that ancient world one must study modern processes and environments. Currently, Dr. Buchheim is studying processes of sedimentation and fossil fish "formation" at the

Salton Sea. This study has also taken him to the Bahamas where he spent several weeks studying submarine processes.

Within the tidal channel of one of the more remote islands, "living fossils" called stromatolites (figure 2) have just been recently discovered.

"Stromatolites are mound-type structures produced by the growth of algal mats, ranging in height from a few inches to over six feet," Dr. Buchheim says. "For many years they have only been found as fossils. Around 1960, living forms were first discovered in Shark Bay, Australia."

"Just two years ago, giant living stromatolites were discovered in the Bahamas."

An understanding of modern stromatolites provides important clues concerning the nature of the ancient lake deposits of Wyoming known as the Green River formation, Dr. Buchheim says. These deposits contain many varieties of fossil stromatolites.

This past November, Dr. Buchheim presented a paper challenging the origin of "varves" which are thought to be accurate "time

clocks" of the past. Varves are thin laminae of sediment (like laminae in plywood) that are thought to be deposited at a rate of one set of light-dark laminae per year.

Dr. Buchheim and Robert Biaggi, a graduate student, conducted a detailed study that involved the counting of laminae number between two "sandwiching" volcanic ash beds (figure 3) within the Green River Formation of Wyoming.

"Picture alternating layers of peanut butter and jam between two slices of bread," Dr. Buchheim says. "Each peanut butter-jam layer would represent one year according to the 'varve' theory. In this case, there are hundreds of peanut butter-jam layers (laminae) between the bread slices (volcanic ash beds)."

According to the "varve" theory there should be the same number of laminae between volcanic ash beds everywhere within the lake deposit.

However, the laminae counts of Dr. Buchheim and Mr. Biaggi showed that the laminae number increased from 1,200 at the ancient lake's center to 1,600 nearer

Number of LLU research projects increase over last academic year

During the academic year 1987-1988, Loma Linda University faculty were involved with 1,787 research projects and were the principal investigators in 1,054 of those, according to Helen Ward Thompson, PhD, vice president for academic administration.

The faculty also made 1,764 presentations at professional meetings and published 1,107 research reports in professional journals.

"These figures show a one-year increase in research projects of 19 percent; 20 percent in principal investigators, 27 percent in pre-

sentations, and 42 percent in publications," Dr. Thompson says.

"Over the last five years, research projects have increased by 64 percent, principal investigators by 46 percent, presentations by 64 percent, and publications by 72 percent."

"This increased involvement in research throughout the University is one indication of increasing academic stature as we not only transmit knowledge, important as that is, but also push back the boundaries and gain new knowledge," Dr. Thompson says.

its margins. It was concluded that the "varve time clocks" were slow in some locations and faster in others, basically making them unreliable!

Dr. Buchheim's research has been conducted within the academic program and facilities in the department of geological sciences.

"This department is among the most productive in research on the La Sierra campus," Dr. Buchheim says. At least 43 publications have been produced by its faculty, including major journal papers, chapters in books, and published abstracts.

Due to financial constraints the graduate program recently merged with the department of biology where it originated 10 years ago. It is anticipated that the research orientation of this program will

continue and even be strengthened.

Presently a master of science degree in paleontology (study of fossils and the rocks entombing them) is offered as part of the program. A night class scheduled has been initiated to increase enrollment and allow the working person to pursue a graduate degree.

This program has attracted students with widely varied undergraduate backgrounds in geology, biology, physics, English, religion, education, history, and the health related professions.

Individuals interested in getting involved with a program with a strong research emphasis should call Dr. Buchheim at (714) 785-2388 or write him at the department of biology, Loma Linda University, La Sierra campus, Riverside 92515.

LLUMC passes previous United Way goal

Arrowhead United Way, with headquarters in San Bernardino, has projected that Loma Linda University Medical Center will show a gain in 1989 of \$13,000 above what employees donated in 1988, for a conservatively estimated total of \$120,000. This is the largest projected gain among all participating organizations.

"Medical Center employees are given the opportunity to have regular payroll deductions made from their checks to contribute to the United Way" says Dick Schaefer, director of Community Relations at LLUMC, who also is a board member for Arrowhead United Way.

"We are pleased with the projected increase," he states, "and appreciate very much the donations being made each month by 25 percent of Medical Center employees. We hope that many more of our employees will decide to give to this very worthy fund."

The vast bulk of donated money is divided among four United Way organizations in the area, according to the percentage

of giving employees who come from each area.

These organizations are Arrowhead United Way (which covers San Bernardino and 29 surrounding communities, including Loma Linda), United Way of Redlands Area, United Way of Riverside, and United Way of Corona / Norco.

These organizations distribute the donated funds to 55 local agencies (including Social Action Corps in Loma Linda) for 131 different health and human service programs.

Because the United Way staffs are largely voluntary, most of the money goes directly to the programs rather than to overhead costs. Arrowhead United Way says that 84 percent of the donations it receives goes directly to services for local citizens.

Any employee who has not signed up to have a payroll deduction made for United Way, but wishes to do so, may fill out a card in the Medical Center community relations office on the lobby level, across from the cashiers.

A tribute to Harrison S. Evans

by V. Norskov Olsen, PhD, TheolD, former president, Loma Linda University

In each generation God interjects Himself by the power of His Spirit into the affairs of men, and the operation of God's working is always in man, through man, but for man.

In each generation God raises men and women of great expectations, both by the reason of His goodness and past performance in their lives and His future promises.

When I, therefore, have the honor to relate a life sketch of our colleague and friend, Dr. Harrison Evans, it becomes a tribute to that God Whom he served. This I know he wanted, because he felt himself indebted to God for all that he had and was able to do.

Dr. Evans was born August 4, 1911, in Monroe, Iowa, to Clifton and Coral Evans. His one and only sister, Aletha Evans Olson of Detroit Lakes, Minnesota, stayed with the Evans' during the last weeks and her tender care meant much to her brother and sister-in-law.

The father died when he was a small boy. In the meantime the grandmother became a Seventh-day Adventist and in turn the mother. The little family met for several years for Sabbath school and church in the home of the Marshalls, the only other Adventists in the area. One of the members of the Marshall family, Jeff Marshall, went as a missionary to South America.

It is understandable that on a tour I had together with Dr. Evans to that part of the world, he was delighted to see the places and institutions where a member of that little church had lived and help to establish — a microcosm of the growth of the Advent movement of which he felt he was a part.

After his college education which he received at Lincoln, Nebraska, he entered the College of Medical Evangelists, now Loma Linda University School of Medicine. While in medical school he married his classmate, Ruth Harding, and together they graduated in 1936. They shared a very happy life together and when sickness came their affection and tender care for one another manifested that deep love and Christian spirit which bound them together.

Dr. Ruth Harding Evans' brother was Dr. George T. Harding III, whose life work was closely tied to the Harding Hospital in Worthington, Ohio, founded by their father, George T. Harding II, and her nephew, George T. Harding IV, who is now its president. Her uncle was the late President Harding of the United

States. She has fond memories of her visits to the White House as a young girl.

Ruth and Harrison Evans have two children — a daughter, Judith Evans Davis, a resident of Sherman Oaks, who operates her own financial services business; a son, Richard Evans, MD, a graduate of the School of Medicine, and a specialist in radiation therapy. He and his wife, Wendy, live in Marin County with their baby daughter. Their love has been a constant strength to the parents.

After graduation from medical school, Dr. Evans took up residency in neurology and psychiatry. After the United States entered World War II, Dr. Evans and other Adventist physicians played a prominent role in establishing the 47th General Hospital in New Guinea which was staffed primarily by Seventh-day Adventists. Here Dr. Evans was chief of psychiatry from 1942-46.

Returning from the army he joined the staff of Harding Hospital in Worthington. In this connection, I should mention that in 1939 he became one of the five founders and board members of Worthington Foods; likewise, one of the founders of the Harding-Evans Foundation.

It was his joy to see this food factory, which had a sale of \$20,000 the first year, grow until last year their sales totaled \$50 million. He treasured the association he had with that institution and its management.

While practicing psychiatry at Harding Hospital he was also associate professor of neurology and psychiatry at Ohio State University. In later years, while he lived in California, he continued for many years as chairman of the board of Harding Hospital.

During his professional career he was a model for a well-trained, dedicated Christian psychiatrist and highly regarded by his colleagues.

His ties with the alumni of the School of Medicine were close. In 1980, he was named "Alumnus of the Year" by the School of Medicine.

When we built the Alumni Hall for Basic Sciences (costing, with furnishing, approximately \$6 million and endowed with nearly \$2 million) it was his and Dr. Gordon Hadley's [at that time, dean of the School of Medicine] relationship with the alumni that made that project possible.

His publications in professional journals were extensive; he likewise contributed individual chapters in scientific books. In

1962, Dr. Evans accepted the invitation to become professor and chairman of the department of psychiatry in the School of Medicine — a position he held until 1984.

However, other responsibilities were added. In 1975 he was asked to serve as dean of the School of Medicine and the following year it was my pleasure to extend to him the invitation to become the first vice president for medical affairs at Loma Linda University, a position he held until his retirement in 1986 except for a short break from 1979-81.

Building on the newly laid foundation for the School of Medicine, Medical Center, and University he manifested outstanding initiative, leadership and support in behalf of the medical facilities.

The purchase of several acres of land on both sides of the south side of Anderson and Barton made it possible to construct phases one and two of the Faculty Medical Office building followed by the acquisition of the Loma Linda Community Hospital and the adjacent professional buildings.

In the Medical Center, we saw the construction of the Schuman Pavilion for nuclear medicine and decisions made for the south wing and beginning plans for a possible building to house the proton accelerator. West Hall and the dialysis building were purchased and the building of Loma Linda Manor started.

Outpatient clinical facilities were established such as in Sun City. Hand in hand with the construction of physical facilities went organizational development.

A model faculty practice plan was worked out and implemented. The establishment of the Adventist Health System / Loma Linda and the designing of the corporate structure to make it work was a major step forward.

The development of a health maintenance organization was also fostered.

In his administrative leadership he was self-effacing. The Chinese have a saying that the greatest tribute to or acknowledgement of a great leader is that the people — when he has laid down his tasks — say "See what we have accomplished." It has been said that "great persons are able to do great kindnesses." He personified what President Bush wishes to be — kinder, gentler. The importance of the individual was always foremost in his thinking.

While academic and administrative structures are important, the atmosphere created in an institution is of paramount impor-

tance. We call it the spirit of the place. Dr. Evans created an atmosphere conducive to growth, confidence, trust, and dedication, not only on the institutional level, but on the human level — the former is dependent upon the latter. His contribution was not only what he gave leadership to — what he did as we say — but what he himself was as a person: a Christian gentleman.

The prayer of Saint Francis of Assisi was exemplified in his life:

Lord, make me an instrument of Your peace. Where there is hatred, let me sow love; where there is doubt, faith; where there is despair, hope; where there is darkness, light; and where there is sadness, joy.

O Divine Master, grant that I may not so much seek to be consoled as to console; to be understood as to understand; to be loved as to love; for it is in giving that we receive; it is in pardoning that we are pardoned; and it is in dying that we are born to eternal life.

Not only our University but we as persons are better because Dr. Harrison Evans touched our lives.

*Lives of great men all remind us
We can make our lives sublime,
And departing leave behind us
Footprints on the sands of time.
But let us remember:
Time and tide wait for no man.
And*

*We have but one life — a little
gleam of time between two eternities.*

Dr. Evans memorial services...

Continued from page 1

During World War II, Dr. Evans served in the United States Army Medical Corps at the 47th General Army Hospital in New Guinea.

In 1962, he was appointed chairman of the department of psychiatry in the School of Medicine. In 1975, Dr. Evans became dean of the School of Medicine and, in 1976, vice president of medical affairs for the University. He retired as vice president in 1986.

Dr. Evans is survived by his wife, Ruth Harding Evans; a daughter, Judith Evans Davis of Sherman Oaks; a son, Richard Evans, MD, of San Anselmo; a granddaughter, Caitlin Evans; and a sister, Aletha Evans Olson of Detroit Lakes, Minnesota.

Contributions in memory of Dr. Evans may be made to the Harrison S. Evans Endowment Fund, School of Medicine, department of psychiatry, Loma Linda University, Loma Linda 92354.

One-day immunology conference planned by School of Nursing

Norman Cousins, adjunct professor in the program of medicine, law, and human values at the University of California at Los Angeles will be the keynote speaker at a one-day conference at Loma Linda University entitled "New Discoveries in Immunology."

Mr. Cousins, a former editor of the *Saturday Review*, and the author of several books including *Anatomy of an Illness* and *Human Options*, will speak on "Psychoneuro-endocrine-immunology" at the February 14 conference.

Scheduled to begin at 8 a.m. at the Randall Visitors Center, the immunology conference, sponsored by the School of Nursing, will update practicing nurses on current concepts in immunology that affect nursing practice today.

An overview of the immune system will include the latest information on humoral immunity, cellular immunity, and the regulation of the immune system.

Transplant immunology and the immunology of infections and AIDS will be examined by noted authorities in the field.

Guest lecturers will include

John E. Lewis, PhD, chairman of clinical laboratory sciences in the School of Allied Health Professions; Sandra Nehlsen-Cannarella, PhD, professor of surgery and director of immunological research in the School of Medicine; James Couperus, MD, associate professor of medicine; and Grace Emori, nurse epidemiologist at the Center for Disease Control in Atlanta, Georgia.

The conference is open to all interested health care professionals.

Further information may be obtained by calling 824-4360 and asking for extension 5493.

Next LLU

TODAY

February 22



Eleven awards were presented at a special School of Medicine banquet held during Loma Linda University research week January 23-27. (Top left photo): John B. Wong, MD, presents four School of Medicine students with the "John B. Wong, MD, Award." Receiving the awards were (left to right) Charles Lynn Hardison, Sanford Kay-Ming Shu, Cindy Lou Slominski, and Douglas Lowell Gates. Mr. Shu, Ms. Slominski, and Mr. Hardison received awards in "recognition of demonstrated genuine Christian concern and service while pursuing the calling 'To Make Man Whole.' Mr. Gates received his award in "recognition of the literary excellence and the essential belief as expressed in the essay entitled 'How Can I Nurture a Dynamic Christian Faith While Attending Loma Linda University School of Medicine.'" Faculty members receiving awards included (top center photo) David J. Baylink, MD, distinguished professor of medicine, in "recognition of his life-long contributions to the understanding of bone and mineral metabolism and his contribution to the School of Medicine's research environment (presented by W. Ross Adey, MD, assistant dean for research affairs); (top right photo) Steven Yellon, PhD, assistant professor of physiology and pediatrics, in "recognition of his highly productive research on the physiology of reproduction in association with Dr. Lawrence Longo's perinatal biology center (presented by Dr. Adey); (bottom left photo) Ralph Thompson, Jr., M.D., professor of surgery, in "recognition of his lifetime commitment to the healing arts and the delivery of competent and compassionate care through selfless service (presented by B. Lyn Behrens, MB, BS, dean, School of Medicine); (bottom center photo) Ian Fraser, PhD, professor and chairman of the department of physiology and pharmacology, in "recognition of his life-long contributions to medical education, not only in the discipline of pharmacology, but also in the school-wide educational program as chairman of the school's curriculum committee (presented by Dr. Behrens); and to School of Medicine alumnus Reuben Matiko, MD, in "recognition of his vision of, and major donation towards, the Good Samaritan statuary which portrays the institutional mission of service to mankind." Also receiving awards (but not pictured) were Lawrence Loo, MD, who received the "Junior Educator of the Year Award" and Alan Collins, professor of art in the College of Arts and Sciences for his artistic expression in rendering the Good Samaritan sculpture.

Loma Linda University academic administration institutes new core curriculum...

Continued from page 1

plete sequence in freshman English. Oral skills: public address, critical thinking or persuasion, or computer skills: course in computer information systems. 13 units.

C. *Religious studies*: Such areas as Biblical studies, Christian ethics, clinical ministry, comparative religions, doctrinal, historical and systematic theology. 16 units.

D. *Natural science, mathematics and health*: Biology, chemistry, geology, mathematics, physics, and health. Students who have not taken a health class on the secondary level (with a grade of C or better) are required to take a health class. The following limitations apply: only one course in health and only one course in math may be counted, and no more than six units in any other area. 16 units.

E. *Social science*: Anthropology, economics, geography, psychology, sociology and political science. Must include courses from at least two of the areas listed. 12 units.

F. *Physical education*: Three activities courses. It is recommended that all students take "Lifetime Fitness" or similar course.

Any requests for modifying these general education requirements to accommodate specific program may be submitted to the University academic affairs committee which is chaired by Dr. Thompson.

"The determination of which area a course will be placed in will be made by the general education committee of the College of Arts and Sciences," Dr. Thompson says, "using standard academic definitions. The college's general education commit-

tee shall seek input from other schools when making decisions affecting them."

A representative committee of faculty, chaired by Ray Shelden, PhD, professor and chairman of the department of chemistry in the College of Arts and Sciences, drew up the proposal through the course of a year's study and work.

The proposal as further refined by the general education curriculum committee of the faculty senate which is chaired by Ramon Gonzalez, PhD, assistant professor of physiology and pharmacology in the School of Medicine.

The University academic affairs committee voted its approval of the revised program on December 6, 1988, with implementation to be phased in beginning with the summer session of 1989.

"Loma Linda University is in a unique position on its effort to

bring together the dimensions of spiritual development, professional training and an enriched general education," Dr. Thompson says.

"The fact that these have now

Tribute to Martin Luther King, Jr. . . .

Continued from page 3

Furthermore, Dr. King did not limit himself to just the interests of one particular ethnic group. He worked to correct injustice and to relieve suffering wherever and whenever he saw it. Poverty, moral insensitivity, and war — these as well as racial discrimination were his enemies.

He called for the elimination of economic injustice in addition to racial injustice and fought for poor whites as well as for poor blacks.

Clearly, at this time of year we commemorate not only Dr. King, the man; we celebrate the dream he had for America and for the

world as well. His dream, however, has been accomplished only in part.

There is much that remains to be done. We are left with an awesome legacy to follow. We must ensure that America never reverts to what it was. To us is left the awesome challenge and solemn duty to eradicate the many problems in this world. It is up to us to see his dream come true.

David A. Pendleton is a senior history and political science major in the College of Arts and Sciences and student body president on the La Sierra campus.

All are welcome!